STARLINE

DATA SHEET

STL-1080 Cold Work Gloves

These gloves have strong grip properties to handle objects in dry and wet environments. The outer layer of these gloves is ORRA (foam nitrile) coated, the inner layer is nylon + spandex and acrylic terry lining fabric. ORRA coating is very comfortable and user-friendly; breathable and provides maximum dexterity.

Glove Lining
It is an acrylic coated spandex and nylon mixture undercoat that keeps hands warm in cold environments.

Elastric Wrist
It is designed to keep gloves fitted and to prevent exterior substances from penetrating into the gloves.

Glove Coating
It is coated with foam material which prevents leakage of liquids

NBR

Marking Field
Includes all information required to be provided as per the European norms.

Binding Color
Color separation has been made on the wristband part so that the size separation can be easily detected.

9/L
10/XL

Technical Specifications

Lining Material	Nylon + Spandex
Coating Material	MEDIUM Foam Nitrile
Color	Phosphorous Yellow
Sizes	9/L, 10/XL
Units per Package	60 Pairs
Packaging	6 Pairs
Category	CAT II
Standards	EN 388:2016+A1:2018 (4232B) EN 511: 2006 (020) EN 407:2020 (X1XXXX) EN ISO 21420: 2020

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COATED AREA AND LINING MATERIAL

Indicates coated parts.

FOAM NITRILE COATING NBR

These gloves protect the hands from liquid leaks thanks to the nitrile coating on the palm and fingertip. Protects from bases, oils, grease, animal oils and many solvents. Provides superior wet and dry grip.

NYLON + SPANDEX LINER

Seamless nylon + spandex lining provides excellent comfort when handling and mounting objects. Acrylic material in the hand-contacted part of the liner ensures that hands are kept warm.

STANDARDS

These gloves are intended to protect the hands against mechanical hazards as defined in the PPE Directive 89/686/EEC. This product is certified as per EN ISO 21420:2020 (General requirements and inspection methods for protective gloves) and EN 388:2016+A1:2018 (Mechanical risk protection), EN 511: 2006 (Cold Protecitve gloves) and EN 407: 2020 (Protective against thermal risks).

EN 388:2016 +A1:2018	EN 511 :2006	EN 407 :2020	EN ISO 21420 :2020
4232B	020	X1XXXX	

CE Dexterity Level (min.1-max.5): **5**

Areas of Usage

- Woodwork
- Building and Construction
- Glassware
- Automotive and Transportation
- Metal Production
- Machine and Equipment
- Logistics and Warehousing

For use in cold environments. It is suitable for use in cold weather storages with operations carried out in winter weather. These gloves are suitable for use in manufacturing of wood, wood products and cork products, manufacturing of paper and paper products, manufacturing of iron, steel and metal products, manufacturing of general purpose machines, manufacturing of planes or transport roads such as railways, automobiles, construction works in and outside of buildings, transportation and storage works, handling of glass and glass products and mechanical works.

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STANDARD REMARKS

EN 388:2016 +A1:2018

a b c d e f

EN 388:2016+A1:2018 Protective Gloves for Mechanical Risks

This standard covers features and test methods for protective gloves against mechanical risks such as abrasion, cutting, tearing, puncturing.

FEATURES:

Protective gloves conforming to this standard must meet all applicable properties of EN 420. The performance level of a protective glove against mechanical risks should be at a higher level for one of the attributes (wear, knife cutting, tearing, puncture and impact protection) that are classified according to the least features of each level shown in the table below.

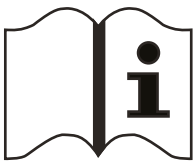
Note - Gloves that meet the specifications for puncture resistance may not be suitable for protection against sharp-pointed objects such as hypodermic needles.

The letter **X** means that the test has not been done or can not be performed.

PERFORMANCE LEVELS	1	2	3	4	5
a - Abrasion resistance (number of cycles)	100	500	2000	8000	-
b - Cut resistance (index)	1,2	2,5	5,0	10,0	20,0
c - Tear resistance (N)	10	25	50	75	-
d - Puncture resistance (N)	20	60	100	150	-

PERFORMANCE LEVELS	A	B	C	D	E	F
e - Cut Resistance (N)	2	5	10	15	22	30
f - Protection Against Impact	Pass (P) / Failed (No sign)					

EN ISO 21420 :2020



EN ISO 21420:2020 General Specifications and Test Methods

This standard specifies the general requirements for the glove design and construction, protection against hazards, comfort, efficiency and marking and information applicable to all protective gloves. This standard also applies to arm protections.

Many gloves designed for electrical technicians or the most private applications such as surgical operations are governed by private and strict standards.

GLOVE SIZE	Fits Hand Size	Hand Circumference / Length	Minimum Glove Length
6	6	152/160 mm	220 mm
7	7	178/171 mm	230 mm
8	8	203/182 mm	240 mm
9	9	229/192 mm	250 mm
10	10	254/204 mm	260 mm
11	11	279/215 mm	270 mm

** For more detailed information on Standards, you can obtain **EN European Glove Standards Guidelines** from www.starlinesafety.com.*

STANDARD REMARKS

EN 407:2020

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EN 407:2020 Protection Against Temperature Risks (Heat and / or Fire)

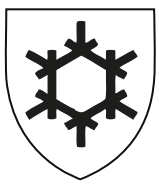
This standard covers the properties of heat and / or fire protection gloves, the methods of testing, the information and marking required to be provided.
For protective gloves against thermal risks, the performance levels in the main pictogram are given in the following order.

a: Burning behavior (post-flame and after burning) (0-4)
b: Contact heat (contact temperature & threshold temperature) (0-4)
c: Convective heat (heat transfer index) (0-4)
d: Radiant heat (heat transfer) (0-4)
e: Small splashes of molten metal (0-4)
f: Large quantitites of molten metal (0-4)

NOTE: *Using an X instead of a number means "the glove is not produced for the intended use."*

PERFORMANCE LEVELS		1	2	3	4
a. Resistance to burning behavior	After flare time (s)	≤ 20s	≤ 10s	≤ 3s	≤ 2s
	After glow time (s)	-	≤ 120s	≤ 25s	≤ 5s
b. Contact heat resistance	Contact temperature (ºC)	100˚C	250˚C	350˚C	500˚C
	Threshold time (s)	≥ 15s	≥ 15s	≥ 15s	≥ 15s
c. Convection heat resistance (s)		≥ 4s	≥ 7s	≥ 10s	≥ 18s
d. Radiant heat resistance (s)		≥ 7s	≥ 20s	≥ 50s	≥ 95s
e. Resistance to small splashes of molten metal (drops)		≥ 10	≥ 15	≥ 25	≥ 35
f. Resistance to large quantity of molten metals (mass)		30g	60g	120g	200g

EN 511:2006



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GLOVES PROTECTING COLD

This standard applies to gloves manufactured against any cold transmitted by transport or contact at –50 ° C.

MARKING:

The following symbol represents cold protection gloves. The 3-digit number indicates resistance levels.

a. Resistance to cold conduction by transport (0-4)
b. Resistance to Contact Cold (0-4)
c. Water Permeability Resistance (0-1)
(NOTE: This type of glove should be resistant to wear and tear at least 1 level of performance.)

PERFORMANCE VALUES	0	1	2	3	4
a. Convective Cold / Insulation	ITR<0.10	0.10≤ITR<0.15	0.15≤ITR<0.22	0.22≤ITR<0.30	0.3≤ITR
b. Contact Cold / Resistance	R<0.025	0.025≤R<0.50	0.050≤R<0.100	0.100≤R<0.150	0.150≤R
c. Water Proof Tes / 30min.	Negative	Positive	-	-	-

Maintenance and Cleaning
We recommend you to clean gloves by a normal detergent with 40-60°C of water with maximum of 3 times. After the washing, the performance may not be seen which it is featured in associated pictograms. It is the responsibility of user to control whether glove is suitable for intended use or not, whether it is complete or not and whether protective functions are undamaged or not. User should carry out an examination against potential defects which are likely to adversely affect protection functions (punctures, tears, damaged seams, etc.).

Service Life
Gloves should be used within five years as of the manufacture date. Service life of the gloves are affected by several factors such as cold, hot, chemicals, sunlight and inadvisable storage.

Storage
Storage is a part of the maintenance and cleaning but is often ignored. Protective gloves should be stored in their original packaging which will keep them away from direct sunlight, chemicals and abrasive materials and protect them against physical damages of the hard surfaces or materials when it is not used or during shipment. Product should be stored in a dry and well-ventilated place. Availability of excessive humidity or intense light may adversely affect the product quality.

Order Information

MODEL	Size	Barcode	Box Quantity	Box Dimension	Box Weight
STL-1080	9 / L	8680907959469	60 Pairs	40 x 40 x 25cm	7,70 kg.
STL-1080	10 / XL	8680907959476	60 Pairs	40 x 40 x 25cm	8.00 kg.